REMARKS

The Office Action mailed January 20, 2006 has been carefully considered by applicant. Reconsideration is respectfully requested in view of the following Remarks.

Allowable Subject Matter

Claims 45-58 are allowed.

Claims 42 and 44 are indicated as allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Double Patenting

Claims 36-41 and 43 have been rejected on the ground of non-statutory obviousness type double patenting as being unpatentable over claims 1-6 and 8-10 of U.S. Patent No. 6,892,726. Applicant respectfully disagrees with the Examiner's conclusion for at least the following reasons.

Heinonen et al U.S. Patent No. 6,892,726 is an arrangement for monitoring whether or not a measuring probe is placed in its correct, intended position. The arrangement compares a measuring value obtained from the measuring probe with a reference value obtained from the surrounding air. The reference value is earlier fed into the memory of the system so that it can be compared with the measuring value obtained from the probe. Accordingly, the monitor can observe the situation at the measuring point, i.e. if the measuring value obtained from the probe is the same as the reference value obtained from the surrounding air, the probe has fallen off, etc.

Claim 36 recites an arrangement for a feedback control system that has the ability to detect malfunctions in the measuring device (7). The arrangement periodically feeds a reference signal to the measuring device, the reference signal having a real, known reference value. This matter is clearly described in claim 36. Heinonen et al '726 fails all together to teach or suggest periodically feeding a reference signal to a measuring device. That is, the system in Heinonen '726 cannot "see" if the control unit (7) is operating correctly or not. The system shown in Heinonen '726 merely monitors whether or not the probe is correctly

placed. Heinonen et al '726 does not render obvious the invention claimed in claim 36. Therefore, there is no double patenting.

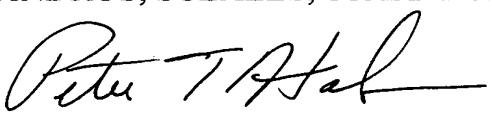
Conclusion

If, after reading the comments above, the Examiner has questions regarding the differences between the invention as defined in claim 36 and the invention defined in the claims of Heinonen et al '726, he is strongly encouraged to contact the undersigned attorney for applicant to conduct an interview.

The present application is believed in condition for allowance and such action is respectfully requested.

Respectfully submitted,

ANDRUS, SCEALES, STARKE & SAWALL, LLP



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